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NOTICE OF ALLOWANCE AND FEE(S) DUE

137

7590

07/23/2008

DOW CORNING CORPORATION CO1232 2200 W. SALZBURG ROAD P.O. BOX 994 MIDLAND, MI 48686-0994

EXAMINER				
ZIMMER, MARC S				
ART UNIT	PAPER NUMBER			
1796				

DATE MAILED: 07/23/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,515	02/15/2006	Tammy Cheng	DC5171 PCT 1	9588

TITLE OF INVENTION: URETHANE COMPOSITIONS CONTAINING CARBINOL-FUNCTIONAL SILICONE RESINS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/23/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 137 7590 07/23/2008 Certificate of Mailing or Transmission DOW CORNING CORPORATION CO1232 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 2200 W. SALZBURG ROAD P.O. BOX 994 MIDLAND, MI 48686-0994 (Depositor's name (Signature (Date APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE 10/568.515 02/15/2006 DC5171 PCT 1 9588 Tammy Cheng TITLE OF INVENTION: URETHANE COMPOSITIONS CONTAINING CARBINOL-FUNCTIONAL SILICONE RESINS APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1440 \$300 \$0 \$1740 10/23/2008 **EXAMINER** ART UNIT CLASS-SUBCLASS ZIMMER, MARC S 1796 528-028000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/568,515	02/15/2006 Tammy Cheng		DC5171 PCT 1	9588
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DOW CORNING CORPORATION CO1232			ZIMMER, MARC S	
2200 W. SALZBURG ROAD			ART UNIT	PAPER NUMBER
P.O. BOX 994 MIDLAND, MI 48686-0994			1796 DATE MAILED: 07/23/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 465 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 465 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/568,515	CHENG ET AL.
Notice of Allowability	Examiner	Art Unit
	MARC S. ZIMMER	1796
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	correspondence address eplication. If not included n will be mailed in due course. THIS
 This communication is responsive to <u>02/15/06</u>. 	allu MPEP 1300.	
2. The allowed claim(s) is/are <u>1,2,4,5 and 7-21</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority una ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have	been received. been received in Application No cuments have been received in this of this communication to file a reply IENT of this application. itted. Note the attached EXAMINER as reason(s) why the oath or declara be be submitted. con's Patent Drawing Review (PTO) as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL	national stage application from the complying with the requirements 2'S AMENDMENT or NOTICE OF ation is deficient. -948) attached Office action of the back) of (d). must be submitted. Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 02/15/06 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☒ Examiner's Amend 8. ☒ Examiner's Statem 9. ☐ Other	(PTO-413), tte

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In each of claims 1-2, and 7-16, 18, and 20, please insert the word

-- -forming --

after the word "urethane" in the first line of the claim.

In claims 7-14, please change the status identifier to currently-amended.

Applicant refers to each of their inventions as a "urethane composition" but, of course, there is no urethane present prior to the outset of the reaction between the carbinol-functional silicone and the isocyanate compound hence the Examiner believed it most appropriate that the invention be alluded to as a "urethane-forming" composition.

Allowable Subject Matter

Applicant discloses a composition comprising a polysiloxane bearing hydroxyorgano substituents and an isocyanate compound and products derived from the same. The polysiloxane reactant has numerous structural limitations attached of which the most limiting are (i) the stipulation that T units be present, and (ii) the

Art Unit: 1796

requirement that, where the substituents on the D units are methyl, the contribution of D units may be no more than 30 mol%.

The vast majority of prior art disclosures directed to the preparation of polyurethane that employ hydroxyalkyl-functional polysiloxanes as co-monomers teach only those urethane polymers derived from hydroxyalkyl-terminated polydiorganosiloxane, and polydimethylsiloxanes in particular. Polydiorganosiloxanes are not embraced by the description of the silicone component of the claims.

WO 03/080696 teaches a polyurethane foam derived from a polysiloxane containing hydroxyalkyl wherein it is said of the polymer macromer that it may be branched and, thus, it is indicated that "T" units may be present. However, there is no comprehensive description of this reactant and, further, the specific embodiments are all ones wherein the polysiloxane is linear and the polymer substituents are methyl groups. As such, the Examiner does not believe that this disclosure even renders obvious the claims.

Sahatjian et al., U.S. Patent Application Publication no. 2005/0010275 teaches a urethane polymer derived from silsesquioxane diols, oligomeric polyols and polyisocyanates. However the claim stipulates that the carbinol group is bonded at an "M" or "D" unit thus this reference also fails to represent a foundation for rejection.

A search for the invention by the International Search Authority yielded two references that, when combined, allegedly render obvious the claimed invention but the Examiner respectfully disagrees. Even it were true that Burns et al., U.S. Patent # 5,290,901 fairly discloses an anticipatory silicone, there is no reason why one of

Application/Control Number: 10/568,515 Page 4

Art Unit: 1796

ordinary skill would have been motivated to replace the polysiloxane reactant taught by U.S. Patent # 4,684,538 with that taught by Burns.

Claims 1-2, 4-5, and 7-21 are allowable. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARC S. ZIMMER whose telephone number is (571)272-1096. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jim Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/568,515 Page 5

Art Unit: 1796

/Marc S. Zimmer/

Primary Examiner, Art Unit 1796